

JD16

# Spectroscopy with Large Telescopes of Chemically Peculiar Stars

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**JD 16 – SPECTROSCOPY WITH LARGE TELESCOPES OF CHEMICALLY PECULIAR STARS:  
PREFACE**

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The Keck 10-m telescope has begun to produce many new findings in a field of stellar spectroscopy with the help of the High Resolution Spectrograph (HIRES). The other large telescopes such as the Subaru, VLT, and Gemini are now being constructed and expected to perform high-resolution spectroscopy in a near future within several years or so. These high-resolution spectroscopic studies will be carried out based on studies which have been made mainly with existing telescopes with aperture smaller than 4 m.

The present is, thus, very opportune to obtain prospects and prepare for the coming era of stellar spectroscopic studies with these large telescopes by making overviews and discussions about the current status of advances in both theoretical and observational fields of atmosphere physics of CP stars. To achieve this aim, the Joint Discussion was organized with 15 review talks and 18 contributed poster papers on the following topics.

- (1) LTE and NLTE model atmospheres and atomic databases as basic tools.
- (2) Fundamental atmospheric parameters of CP and related stars.
- (3) Abundance analyses with LTE and NLTE.
- (4) Large scale motions and diffusion processes.
- (5) Magnetic fields.
- (6) Variabilities .

The JD 16 was held all day on August 25. The number of participants amounted to about 35 on average. Many new results were presented and beneficial discussions were made to obtain prospects for studies of CP stars in the era of large telescopes.

On behalf of the SOC, the chairpersons would like to express our hearty thanks to all of participants for valuable contributions, which made the JD very successful and fruitful.